

control device providing a power signal to said manipulator; and

(e) a second path disposed between a commercial power source and said manipulator.

2. (Amended) The industrial robot of claim 1, wherein when a voltage supplied from said commercial power source in said second path is applied to said manipulator, said robot body becomes freely movable without being controlled by said manipulator.

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3 (Amended) The industrial robot of claim 3, wherein when the voltage supplied from said commercial power source in said second path is applied to said manipulator, said brake is released, and said robot body becomes freely movable.

11 10  
8 (Amended) The industrial robot of claim 5, further comprising:  
(g) a switch device disposed between said control device and said voltage transformer,

13 wherein said switch device serves to switch said first path, and when said first path is switched on, said brake is controlled by said control device, and

when said first path is switched off, said brake becomes released due to the voltage transformed by said voltage transformer in said second path.

Sub B2 14  
9 (Amended) A method of operating an industrial robot having a robot system comprising a robot body; a manipulator to control the operation of said robot body; a control device to control said manipulator; a first path disposed between said manipulator and said control device, and a second path disposed between a commercial power source and said manipulator; said method comprising the steps of:

A3 (a) operating said manipulator by controlling said control device by said first path, thereby controlling the operation of said robot body, said control device providing a power signal to said manipulator; and

(b) freely moving said robot body without being controlled by said manipulator by applying a voltage from said commercial power source to said manipulator via said second path when said manipulator is unable to receive said power signal from said control device via said first path.

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10 (Amended) The method of operating an industrial robot of claim 9, wherein said manipulator includes a motor to drive said robot body, and a brake to brake said motor;

the step (a) includes a step of controlling said control device by said first path, and operating said manipulator, while holding said brake, thereby controlling the operation of said robot body; and

in the step (b), when said manipulator is unable to be controlled by said control

device via said first path, a voltage is supplied from said commercial power source to said brake, thereby releasing said brake, and then said robot body becomes freely movable without being controlled by said manipulator.

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11 (Amended) The method of operating an industrial robot of claim 10, wherein said robot system further comprises a voltage transformer disposed between said commercial power source in said first path and said manipulator, and

in the step (b), when said manipulator is unable to be controlled by said control device via said first path, the voltage supplied from said commercial power source is transformed by said voltage transformer to a voltage for releasing said brake, and the transformed voltage is applied to said brake, and then said robot body becomes freely movable without being controlled by said manipulator.

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12 (Amended) The method of operating an industrial robot of claim 10, wherein said robot system further comprises a switch device disposed between said control device and said manipulator;

in step (a), when said switch device selects said first path so that the first path is electrically connected to said manipulator, said brake is controlled by said control device and becomes released, and then said robot body becomes freely movable, and

in step (b), when said switch device selects said second path so that the first

18 can be added.  
path is switched off, said brake becomes released due to the voltage supplied from said commercial power source in said second path, and then said robot body becomes freely movable.

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~~18~~ (Amended) The method of operating an industrial robot of claim ~~10~~, wherein said manipulator further includes a brake releasing device to release said brake, and in the step (a) and step (b), said brake is released, and thereby, said robot body becomes freely movable.

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Please add new claims 19-22 as follows:

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--19. (New) The industrial robot of claim 1, wherein said power signal enables operation of said manipulator.

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20. (New) The method of operating an industrial robot of claim 9, wherein said power signal enables operation of said manipulator.

21. (New) An industrial robot, comprising:

- 22  
(a) a robot body;  
(b) a manipulator to control an operation of said robot body;  
(c) a control device for controlling said manipulator, said control device providing